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JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2015-16/ **Date:12-06-2015**

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Jakkur in Ward No.05}

Ref. : Letter No. Testing/BUB/2015-16, dated 09-06-2015

Sample supplied to lab by : Assistant Executive Engineer,
Byatarayanapura Sub-Division
BBMP, Bangalore

Name of the Contractor/Agency*: Mr.V.Chandrappa, Contractor, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	**100.00**	100
45.00	**96.50**	95-100
26.50	**---**	-
22.40	**77.50**	60-80
11.20	**56.40**	40-60
4.75	**33.20**	25-40
2.36	**18.50**	15-30
0.600	**14.10**	8-22
0.075	**3.90**	0-8

*As Furnished by Client.

The Results relate only to the items tested.

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12/6/2015
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BUB/CTE/2015-16/ **Date: 18-06-2015**

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: Testing of Bitumen Premix Sample (Semi Dense Bituminous Concrete-SDBC).
{Project*: Improvements to Roads and Drains at Jakkur in Ward No.05}

Ref. : Letter No. Testing/BUB/2015-16, dated 16-06-2015

Sample supplied to lab by : Assistant Executive Engineer,
Byatarayanapura Sub-Division
BBMP, Bangalore

Name of the Contractor/Agency*: Mr.V.Chandrappa, Contractor, Bangalore.

TEST RESULTS:

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.10 %**
2. **Gradation Test** :

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specifications-2001 (Grading – 2)
13.2	**100**	100
9.5	**97.40**	90—100
4.75	**46.10**	35—51
2.36	**29.00**	24—39
1.18	**18.50**	15—30
0.3	**13.90**	09—19
0.075	**6.20**	03—08

* As furnished by Client.
The Results relate only to the items tested.

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18/6/2015
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BUB/CTE/2015-16/

DATE: 05-06-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (07days Compressive Strength)
{Project*: Improvements to Roads and Drains at Jakkur in Ward No.05}
Ref. : Letter No. Testing/BUB/2015-16, dated 04-06-2015
Sample supplied to lab by : Assistant Executive Engineer,
Byatarayanapura Sub-Division
BBMP, Bangalore
Name of the Contractor/Agency*: Mr.V.Chandrappa, Contractor, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-05-15	04-06-15	07	22500	400	17.77	**17.62**
	002	"	"	"	"	390	17.33	
	003	"	"	"	"	400	17.77	

*As Furnished by Client.
The Results relate only to the items tested.

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BUB/CTE/2015-16/

Date: 26-05-2015

1. TEST REPORT ON REINFORCEMENT STEEL :

Sub: Testing of Reinforcement Steel of diameter 12 mm.
{Project*: Improvements to Roads and Drains at Jakkur in Ward No.05}
Ref. : Letter No. Testing/BUB/2015-16, dated 25-05-2015
Sample supplied to lab by : Assistant Executive Engineer,
Byatarayanapura Sub-Division
BBMP, Bangalore
Name of the Contractor/Agency*: Mr.V.Chandrappa, Contractor, Bangalore.

TABLE – 1

SL No	Details	For 12mm	
		Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**12.0mm**	12.0mm
02	Observed Wt/m Length **Kg/m**	**0.891**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**465.0**	415.0
04	Bend/ Re bend Test	**Ok**	---
05	Percentage of Elongation, %	**18.50**	14.50
06	Ultimate Tensile Strength **N/mm^2**	**621.0**	485.0

*As furnished by Client.
The Results relate only to the items tested.

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